Tts = Dayhpc &

$$TL_1 = D^{\alpha} U^{\beta} \rho^{c} F_{L}$$

$$= \left\{ L^{\alpha} \right\} \left\{ \frac{L^{\beta}}{T^{\alpha}} \right\} \left\{ \frac{M^{c}}{L^{3c}} \right\} \left\{ \frac{ML}{T^{2}} \right\} = \left\{ \frac{M^{c}}{L^{3c}} \right\} \left\{ \frac{ML}{T^{2}} \right\}$$

$$= \left\{ L^{\alpha} \right\} \left\{ \frac{L^{\alpha}}{T^{\alpha}} \right\} \left\{ \frac{M^{c}}{L^{3c}} \right\} \left\{ \frac{ML}{T^{2}} \right\} = \left\{ M^{0} L^{0} T^{0} \right\}.$$

$$\left\{ M: c+1 = 0 \right\}$$

$$= \left\{ L^{\alpha} \right\} \left\{ \frac{L}{T^{\alpha}} \right\} \left\{ \frac{ML}{T^{2}} \right\} = \left\{ M^{0} L^{0} T^{0} \right\}.$$

$$M: C+1 = 0$$

$$L: \alpha + \lambda - 3c + 1 = 0$$

$$T: -\lambda - 2 = 0.$$

$$0 = -7$$

$$0 = -7$$

$$0 = -7$$

$$0 = -7$$

$$0 = -7$$

$$T : -h - 2 = 0.$$

$$\alpha = -2, h = -2, c = -1$$

$$T = D^{\alpha} U^{\beta} \rho^{c} \mu$$

$$= \left\{ L^{\alpha} \right\} \left\{ \frac{L^{\beta}}{T^{\alpha}} \right\} \left\{ \frac{M^{c}}{L^{3c}} \right\} \left\{ \frac{M}{LT} \right\} = \left\{ M^{\circ} L^{\circ} T^{\circ} \right\}$$

$$+1 = 0$$
.
 $+1 = 0$.
 $+1 = 0$.

$$\begin{cases}
M: C+1 = 0. \\
L: Q+L-3c-1 = 0. \\
T: -h-1 = 0
\end{cases}$$

$$= \left\{ L^{\alpha} \right\} \left\{ \frac{L^{\alpha}}{T^{\alpha}} \right\} \left\{ \frac{M^{c}}{L^{3c}} \right\} \left\{ L \right\} = \left\{ M^{\circ} L^{\circ} T^{\circ} \right\}$$

$$\int M : C = 0$$

$$L : \alpha + \lambda - 3c + 1 = 0$$

$$T : -\lambda = 0$$

$$\alpha = -1, \ h = 0, \ c = 0$$

$$h = 0$$
. $a = -1$, $h = 0$, $c = 0$

$$= \left\{ L^{a} \right\} \left\{ \frac{L^{a}}{T^{a}} \right\} \left\{ \frac{M^{c}}{L^{3c}} \right\} \left\{ \frac{1}{T} \right\} = \left\{ M^{o}L^{o}T^{o} \right\}$$

$$M: \quad C = 0.$$

$$L: \quad \alpha + h - 3c = 0.$$

$$T: -h - 1 = 0 \qquad \qquad \alpha = 1 \quad l = -1 \quad , \quad C = 0.$$

$$\pi_1 = F(\pi_2, \pi_3, \pi_4).$$

$$\frac{FL}{\rho U^2 b^2} = F\left(\frac{M}{\rho UD}, \frac{2}{D}, \frac{D\Omega}{U}\right).$$

$$\frac{1}{Q} = \frac{1}{Q} = \frac{1}{Q}$$

Thy = Da Uhpc D

$$T_{1} = B^{a} g^{h} Q$$

$$\pi_{i} = B^{a} g^{h} Q$$

$$(1) L^{a}() L^{3}(-1)$$

$$\pi_{i} = B^{\alpha} g^{\beta} Q$$

$$= \frac{1}{3} \left(\frac{1}{3} \right) \left(\frac{1}{3} \right) \left(\frac{1}{3} \right) = \frac{1}{3} \left(\frac{1}{3} \right)$$

$$= \left\{ L^{\alpha} \left\{ \left\{ \frac{L^{\alpha}}{T^{2}A} \right\} \right\} \frac{L^{3}}{T} \right\} = \left\{ L^{\alpha} T^{\alpha} \right\}$$

)
$$L: a+b+3=0$$
.

) L:
$$a+b+3=0$$
.
T: $-2b-1=0$. $a=-\frac{5}{2}$, $b=-\frac{1}{2}$

$$\pi_{z} = \beta^{\alpha} g^{h} H.$$

$$= \{ L^{\alpha} \} \{ \frac{L^{2}}{T^{2} A} \} \{ L^{\beta} = \{ L^{\alpha} T^{\alpha} \}.$$

$$\pi_1 = F(\pi_2), :$$

$$C_1 = F(\pi_2),$$

$$\frac{Q}{R^{\frac{5}{2}}q^{\frac{1}{2}}} = F\left(\frac{H}{B}\right).$$

$$T_{L_{1}} = g^{\alpha} H^{\beta} Q$$

$$= \left\{ \frac{L^{\alpha}}{T^{2\alpha}} \right\} \left\{ L^{\beta} \right\} \left\{ \frac{U}{T} \right\} = \left\{ L^{\alpha} T^{\alpha} \right\}.$$

$$L: \alpha + \beta + 3 = 0.$$

$$T: -2\alpha - 1 = 0.$$

$$\alpha = -\frac{1}{2}, \beta = -\frac{5}{2}$$

$$T_{L_{2}} = g^{\alpha} H^{\beta} B$$

$$= \left\{ \frac{L^{\alpha}}{T^{2\alpha}} \right\} \left\{ L^{\beta} \right\} \left\{ L \right\} = \left\{ L^{\alpha} T^{\alpha} \right\}.$$

$$L: \alpha + \beta + 1 = 0.$$

$$T: -2\alpha = 0.$$

$$\alpha = 0, \beta = -1.$$

$$T_{L_{1}} = F(\pi_{L}).$$

$$Q = \frac{1}{g^{\frac{1}{2}} H^{\frac{1}{2}}} = F(\frac{B}{H}).$$

$$Q = \frac{1}{g^{\frac{1}{2}} H^{\frac{1}{2}}} = \frac{1}{2} \cdot \frac{B}{H}$$

 $Q = X - g^{\frac{1}{2}}BH^{\frac{3}{2}} = XBJgH^{3}$ (XII)

2 Q O B OLEMIRE.